

**RULE 63 (37 C.F.R. 1.63)**  
**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE**  
**UNITED STATES PATENT AND TRADEMARK OFFICE**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **FREQUENCY ADAPTIVE ULTRA-WIDEBAND TRANSMITTER**, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

<u>PRIOR FOREIGN APPLICATION(S)</u>		<u>Date first Laid-open or Published</u>	<u>Date Patented or Granted</u>	<u>Priority Claimed</u>
<u>Name(s)</u>	<u>Country</u>	<u>Day/MONTH/Year Filed</u>		<u>Yes</u> <u>No</u>

I hereby claim domestic priority benefit under 35 U.S.C. 120/365 of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

<u>PRIOR U.S. PROVISIONAL, NONPROVISIONAL AND/OR PCT APPLICATION(S)</u>		<u>Status</u>	<u>Priority Claimed</u>
<u>Application No. (series code/serial no.)</u>	<u>Day/MONTH/Year Filed</u>	<u>pending, abandoned, patented</u>	<u>Yes</u> <u>No</u>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint Farber & Mandell P.L.L.C., 1233 20th Street N.W., Suite 700, Washington, D.C. 20036-2396, telephone number (202) 778-1310 to whom all communications are to be directed), and the below-named persons (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to delete attorney numbers below of persons no longer with their firm and to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sends/enters this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Farber and Mandell in writing to the contrary.

Lawrence Kimball	27644	Jeffrey S. Melcher	35950
Edward J. Stemberger	36017	William H. Bollman	36457

1. INVENTOR'S SIGNATURE: *F. Frederick Larrick, Jr.* - Date 5/15/97  
 Inventor's Name (type): F. Frederick Larrick, Jr. USA  
 First Middle Initial Family Name Country of Citizenship  
 Post Office Address (Include Zip Code): 1317 Almond Road, Silver Spring, MD 20906  
 Residence (City): Silver Spring (State/Foreign Country): Maryland

2. INVENTOR'S SIGNATURE: *Robert J. Fentress* - Date 5/15/97  
 Inventor's Name (type): Robert J. Fentress USA  
 First Middle Initial Family Name Country of Citizenship  
 Post Office Address (Include Zip Code): 7733 Polaris Place, Rockville, MD 20855  
 Residence (City): Rockville (State/Foreign Country): Maryland

## DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ULTRA WIDEBAND RECEIVER WITH HIGH SPEED NOISE AND INTERFERENCE TRACKING THRESHOLD the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

<u>PRIOR FOREIGN APPLICATION(S)</u>		<u>Date First Filed</u>	<u>Date Patented</u>	<u>Priority Claimed</u>
<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>	<u>or Granted</u>	<u>Yes</u> <u>No</u>

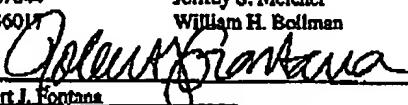
I hereby claim domestic priority benefit under 35 U.S.C. 120/365 of the indicated United States applications listed below and PCT International applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

<u>PRIOR U.S. PROVISIONAL, NONPROVISIONAL AND/OR PCT APPLICATION(S)</u>		<u>Status</u>	<u>Priority Claimed</u>
<u>Application No. (series code/serial no.)</u>	<u>Day/Month/Year Filed</u>	<u>Pending, abandoned, patented</u>	<u>Yes</u> <u>No</u>

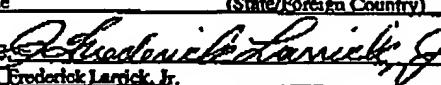
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint Farkas & Manelli P.L.L.C., 1233 20th Street N.W., Suite 700, Washington, D.C. 20036-2396, telephone number (202) 778-1310 to whom all communications are to be directed, and the below-named persons (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to delete names/numbers below of persons no longer with their firm and to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Farkas and Manelli in writing to the contrary.

Lawrence Harbin	27644	Jeffrey S. Melcher	35950
Edward J. Stemberger	36017	William H. Bollman	36457

1. INVENTOR'S SIGNATURE:  Date 6/11/97  
Inventor's Name (typed) Robert J. Fontana USA

First	Middle Initial	Family Name	Country of Citizenship
Post Office Address (Include Zip Code)	7733 Polara Place, Rockville, MD 20855		
Residence (City)	(State/Foreign Country) Maryland		

2. INVENTOR'S SIGNATURE:  Date 6/11/97  
Inventor's Name (typed) Frederick Larrick, Jr. USA  
Country of Citizenship

First	Middle Initial	Family Name	Country of Citizenship
Post Office Address (Include Zip Code)	1317 Atwood Road, Silver Spring, MD 20906		
Residence (City)	(State/Foreign Country) Maryland		

Inventor(s): J. Frederick Lerrick, Jr., Robert J. Fontana

Att. No. 27459-805/T

Appl. No. 0 / or Patent No.

Filed herewith  or Issued:

Title: FREQUENCY ADAPTIVE ULTRA-WIDEBAND TRANSMITTER

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(d) and 1.27(c)) - SMALL BUSINESS CONCERN**

I hereby declare that I am

the owner of the small business concern identified below;  
 an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN Multispectral Solutions, Inc.

ADDRESS OF CONCERN 202 Perry Parkway, Gaithersburg, Maryland 20877-2172

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled: FREQUENCY ADAPTIVE ULTRA-WIDEBAND TRANSMITTER by inventors J. Frederick Lerrick, Jr. and Robert J. Fontana described in

X  the Specification filed herewith,  
one  Application No. 0 /  filed \_\_\_\_\_  
box  Patent No.  issued \_\_\_\_\_

If the rights held by the above identified small business concern are not exclusive, each small entity individual, concern or organization having rights to the invention is listed in (A) and (B) below and no rights to the invention are held by any person, other than the inventor, who could not qualify under 37 CFR 1.9(c) as an independent inventor if that person had made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

(A) FULL NAME of assignee/licensee/grantee/conveyee\* Multispectral Solutions, Inc.  
ADDRESS 202 Perry Parkway, Gaithersburg, Maryland

proper box:  INDIVIDUAL  SMALL BUSINESS CONCERN  NONPROFIT ORGANIZATION

\*NOTE: Separate verified statement is required from each person, concern or organization named in (A) and (B) above having rights to the invention, even if to his/her/its status as a small entity. (37 CFR 1.27)

I acknowledge the duty to file, in this case, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(d))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING Robert J. Fontana, Ph.D.

TITLE OF PERSON OTHER THAN OWNER President

ADDRESS OF PERSON SIGNING 202 Perry Parkway, Gaithersburg, Maryland

SIGNATURE Robert J. Fontana DATE 5/15/97

Appln. No.: 0 / or Patent No.: \_\_\_\_\_

Filed: herewith or Issued: \_\_\_\_\_

Title: ULTRA WIDEBAND RECEIVER WITH HIGH SPEED NOISE AND INTERFERENCE TRACKING THRESHOLDVERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(d) and 1.27(c)) - SMALL BUSINESS CONCERN

I hereby declare that I am

the owner of the small business concern identified below:  
 an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN Multispectral Solutions, Inc.ADDRESS OF CONCERN 202 Perry Parkway, Gaithersburg, Maryland 20877-2172

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.8(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year; and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled: ULTRA WIDEBAND RECEIVER WITH HIGH SPEED NOISE AND INTERFERENCE TRACKING THRESHOLD

by inventors Robert J. Fontana and J. Frederick Lamick, Jr. described in

the Specification filed herewith,  
 Application No. 0 /, filed \_\_\_\_\_  
 Patent No. \_\_\_\_\_, issued \_\_\_\_\_.

If the rights held by the above identified small business concern are not exclusive, each small entity individual, concern or organization having rights to the invention is listed in (A) and (B) below and no rights to the invention are held by any person, other than the inventor, who could not qualify under 37 CFR 1.9(c) as an independent inventor if that person had made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

(A) FULL NAME of assignee/licensee/grantee/conveyee\* Multispectral Solutions, Inc.  
ADDRESS 202 Perry Parkway, Gaithersburg, Maryland

proper box:  INDIVIDUAL  SMALL BUSINESS CONCERN  NONPROFIT ORGANIZATION

\*NOTE: Separate verified statement is required from each person, concern or organization named in (A) and (B) above having rights to the invention, according to his/her/its status as a small entity. (37 CFR 1.27)

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING Robert J. Fontana, Ph.D.

TITLE OF PERSON OTHER THAN OWNER President

ADDRESS OF PERSON SIGNING 202 Perry Parkway, Gaithersburg, Maryland

SIGNATURE Robert J. Fontana DATE 12/11/97